

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Switched power supply converter for broad range of input voltages that comprises a first stage which converts a first voltage supplied from a voltage source into a second voltage by means of a first switching element and a second stage that receives the second voltage and transforms it into a third DC voltage, a first control circuit controls the duty cycle of the first switching element so that the duty cycle varies between a first limit of the duty cycle and a second limit of the duty cycle; wherein the first control circuit is adapted to fix the duty cycle at the first limit of the duty cycle or at the second limit of the duty cycle in the event that the first voltage is outside a predetermined range of input voltage values.
2. (previously presented): Switched power supply converter according to claim 1, wherein the first control circuit is adapted to receive a sample of the second voltage.
3. (previously presented): Switched power supply converter according to claim 1, wherein the first stage is implemented according to a conversion topology without galvanic isolation.
4. (previously presented): Switched power supply converter according to claim 1, wherein the second stage is implemented according to a conversion topology with galvanic isolation.
5. (currently amended): Switched power supply converter according to claim 51, wherein the second stage comprises a transformer with a predetermined number of secondary

windings that configure a predetermined number of outputs of the switched power supply converter, respectively.

6. (currently amended): Switched power supply converter according to claim 61, wherein the second stage comprises a second control circuit that is adapted to receive a sample of the third voltage and regulates the third voltage.

7. (previously presented): Switched power supply converter according to claim 1, wherein the first control circuit and the second control circuit are independent.

8. (new): Switched power supply converter according to claim 1, wherein when the first control circuit controls the duty cycle of the first switching element so that the duty cycle varies between a first limit of the duty cycle and a second limit of the duty cycle and the input voltage level falls outside an input voltage range defined by a first and second predetermined level, the duty cycle of the first switching element remains constant.

9. (new): Switched power supply converter according to claim 1, wherein the duty cycle of the first power stage is independent of the supplied voltage.